

Amendments to the Claims

A detailed list of all claims under examination is set out below. Please cancel claims 1, 4, 8, 10, 21-23, 27, 31 and 33 without prejudice and amend claims 2, 6, 7, 13-20, 29, 30, 36 and 37 as shown below:

1. (cancelled).
2. (currently amended): The ~~coated substrate of claim 1~~ coating composition of claim 32, wherein the coating composition further comprises an adjuvant selected from the group consisting of: pigment, flow modifiers, viscosity modifiers, or combinations thereof.
- 3-5. (cancelled).
6. (currently amended): The ~~coated substrate of claim 1~~ coating composition of claim 32, wherein the symmetric diol amount is greater than 60 weight percent based on the total weight of polyols and the asymmetric diol amount is greater than 25 weight percent based on the total weight of polyols.
7. (currently amended): The ~~coated substrate of claim 1~~ coating composition of claim 32, wherein the symmetric diol amount is greater than 65 weight percent based on the total weight of polyols and the asymmetric diol amount is greater than 30 weight percent based on the total weight of polyols.
8. (cancelled).

9. (previously presented): A coated substrate, comprising: a substrate coil, and a coating composition applied to at least one major surface of the substrate coil,

wherein the coating composition comprises a binder comprising a polyester resin that is formed using at least one aromatic dicarboxylic acid and using polyols comprising at least one symmetric diol in an amount greater than 50 weight percent based on the total weight of polyols and at least one asymmetric diol in an amount greater than 20 weight percent based on the total weight of polyols, wherein the polyester resin comprises between about 50 and 75 weight percent isophthalic acid based on the total weight of resin and has a glass transition temperature of at least about 35 °C;

wherein the symmetric diol includes both 1,3-propanediol and neopentyl glycol; and wherein the flexibility of the coated substrate is at least 1T with no tape off.

10. (cancelled).

11. (previously presented): A coated substrate, comprising: a substrate coil, and a coating composition applied to at least one major surface of the substrate coil,

wherein the coating composition comprises a binder comprising a polyester resin that is formed using at least one aromatic dicarboxylic acid and using polyols comprising at least one symmetric diol in an amount greater than 50 weight percent based on the total weight of polyols and at least one asymmetric diol in an amount greater than 20 weight percent based on the total weight of polyols, wherein the polyester resin comprises between about 50 and 75 weight percent isophthalic acid based on the total weight of resin and has a glass transition temperature of at least about 35 °C;

wherein the asymmetric diol comprises 2-methyl-1,3-propanediol; and

wherein the flexibility of the coated substrate is at least 1T with no tape off.

12. (previously presented): A coated substrate, comprising: a substrate coil, and a coating composition applied to at least one major surface of the substrate coil,

wherein the coating composition comprises a binder comprising a polyester resin that is formed using at least one aromatic dicarboxylic acid and using polyols comprising at least one symmetric diol in an amount greater than 50 weight percent based on the total weight of polyols and at least one asymmetric diol in an amount greater than 20 weight percent based on the total weight of polyols, wherein the polyester resin comprises between about 50 and 75 weight percent isophthalic acid based on the total weight of resin and has a glass transition temperature of at least about 35 °C;

wherein the polyester resin comprises between about 15 and 40 weight percent 1,3-propanediol, between about 20 and 45 weight percent 2-methyl-1,3-propanediol, and between about 25 and 50 weight percent neopentyl glycol based on the total weight of polyols; and

wherein the flexibility of the coated substrate is at least 1T with no tape off.

13. (currently amended): The ~~coated substrate of claim 1~~ coating composition of claim 32, wherein the binder further comprises a crosslinking agent.

14. (currently amended): The ~~coated substrate~~ coating composition of claim 13, wherein the crosslinking agent comprises a melamine formaldehyde resin.

15. (currently amended): The ~~coated substrate of claim 1~~ coating composition of claim 34, wherein the glass transition temperature of the polyester resin is at least about 40 °C.

16. (currently amended): The ~~coated substrate of claim 1~~ coating composition of claim 34, wherein the number average molecular weight of the polyester resin is between about 2,500 and 5,000.

17. (currently amended): The ~~coated substrate of claim 1~~ coating composition of claim 34, wherein the binder comprises a blend of an aromatic solvent and propylene glycol monomethyl ether acetate.

18. (currently amended): The ~~coated substrate of claim 1~~ coating composition of claim 34, wherein the hydroxyl number of the polyester resin is between about 20 and 50.

19. (currently amended): The coated substrate of ~~claim 1~~ claim 9, wherein the coating has a flexibility of 0T with no tape off, and a hardness of at least H.

20. (currently amended): The coated substrate of ~~claim 1~~ claim 11, wherein the coating composition when formulated to an initial white color and exposed outdoors in South Florida for 17 months at a 45 degree angle facing south, has an L value color change less than about 3 units compared to an unexposed panel.

21-23. (cancelled).

24. (previously presented): A coated substrate, comprising: a substrate coil, and a coating composition applied to at least one major surface of the substrate coil,

wherein the coating composition comprises a binder comprising a polyester resin that is formed using at least one aromatic dicarboxylic acid and using polyols comprising at least one symmetric diol in an amount greater than 50 weight percent based on the total weight of polyols and at least one asymmetric diol in an amount greater than 20 weight percent based on the total weight of polyols, wherein the polyester resin has a glass transition temperature of at least about 35 °C;

wherein the symmetric diol includes both 1,3-propanediol and neopentyl glycol; and

wherein the flexibility of the coated substrate is at least 1T with no tape off.

25. (previously presented): A coated substrate, comprising: a substrate coil, and a coating composition applied to at least one major surface of the substrate coil,

wherein the coating composition comprises a binder comprising a polyester resin that is formed using at least one aromatic dicarboxylic acid and using polyols comprising at least one symmetric diol in an amount greater than 50 weight percent based on the total weight of polyols and at least one asymmetric diol in an amount greater than 20 weight percent based on the total weight of polyols, wherein the polyester resin has a glass transition temperature of at least about 35 °C and comprises between about 15 and 40 weight percent 1,3-propanediol, between about 20 and 45 weight percent 2-methyl-1,3-propanediol, and between about 25 and 50 weight percent neopentyl glycol based on the total weight of polyols; and

wherein the flexibility of the coated substrate is at least 1T with no tape off.

26. (previously presented): A coated substrate, comprising: a substrate coil, and a coating composition applied to at least one major surface of the substrate coil,

wherein the coating composition comprises a binder comprising a polyester resin that is formed using at least one aromatic dicarboxylic acid and using polyols comprising at least one symmetric diol in an amount greater than 50 weight percent based on the total weight of polyols and at least one asymmetric diol in an amount greater than 25 weight percent based on the total weight of polyols, wherein the aromatic dicarboxylic acid comprises isophthalic acid, the isophthalic acid is greater than 85 weight percent based on the total weight of acids and the polyester resin has a glass transition temperature of at least about 35 °C; and wherein the flexibility of the coated substrate is at least 1T with no tape off.

27. (cancelled).

28. (previously presented): A coating composition, comprising:

a binder, wherein the binder comprises a polyester resin that is formed using at least one aromatic dicarboxylic acid and using polyols comprising at least one symmetric diol in an amount greater than 50 weight percent based on the total weight of polyols and at least one asymmetric diol in an amount greater than 20 weight percent based on the total weight of polyols, and optionally a crosslinker, wherein the polyester resin comprises between 50 and 75 weight percent isophthalic acid based on the total weight of binder and wherein the coating composition is storage stable, has a glass transition temperature of at least about 35 °C and when applied to a coil and hardened will have a flexibility of at least 1T with no tape off, and wherein the aromatic dicarboxylic acid component is greater than about 85 weight percent based on the total weight of acid, the symmetric diol comprises 1,3-propanediol and the asymmetric diol comprises 2-methyl-1,3-propanediol.

29. (currently amended): The coating composition of ~~claim 23~~ claim 34, wherein the symmetric diol amount is greater than 60 weight percent based on the total weight of polyols and the asymmetric diol amount is greater than 25 weight percent based on the total weight of polyols.

30. (currently amended): The coating composition of ~~claim 23~~ claim 34, wherein the symmetric diol amount is greater than about 65 weight percent based on the total weight of polyols and the asymmetric diol amount is greater than about 30 weight percent based on the total weight of polyols.

31. (cancelled).

32. (previously presented): A coating composition, comprising:

a binder, wherein the binder comprises a polyester resin that is formed using at least one aromatic dicarboxylic acid and using polyols comprising at least one symmetric diol in an amount greater than 50 weight percent based on the total weight of polyols and at least one asymmetric diol in an amount greater than 20 weight percent based on the total weight of polyols, and optionally a crosslinker, wherein the polyester resin comprises between 50 and 75

weight percent isophthalic acid based on the total weight of binder and wherein the coating composition is storage stable, has a glass transition temperature of at least about 35 °C and when applied to a coil and hardened will have a flexibility of at least 1T with no tape off, and wherein the symmetric diol includes both 1,3-propanediol and neopentyl glycol.

33. (cancelled).

34. (previously presented): A coating composition, comprising:

a binder, wherein the binder comprises a polyester resin that is formed using at least one aromatic dicarboxylic acid and using polyols comprising at least one symmetric diol in an amount greater than 50 weight percent based on the total weight of polyols and at least one asymmetric diol in an amount greater than 20 weight percent based on the total weight of polyols, and optionally a crosslinker, wherein the polyester resin comprises between 50 and 75 weight percent isophthalic acid based on the total weight of binder and wherein the coating composition is storage stable, has a glass transition temperature of at least about 35 °C and when applied to a coil and hardened will have a flexibility of at least 1T with no tape off, and wherein the asymmetric diol comprises 2-methyl-1,3-propanediol.

35. (previously presented): The coating composition of claim 34, wherein the polyester resin comprises between about 15 and 40 weight percent 1,3-propanediol, between about 20 and 45 weight percent 2-methyl-1,3-propanediol, and between about 25 and 50 weight percent neopentyl glycol based on the total weight of polyols.

36. (currently amended): The coating composition of ~~claim 23~~ claim 34, wherein the binder further comprises a crosslinking agent.

37. (currently amended): The coating composition of ~~claim 33~~ claim 36, wherein the crosslinking agent comprises a melamine formaldehyde resin.